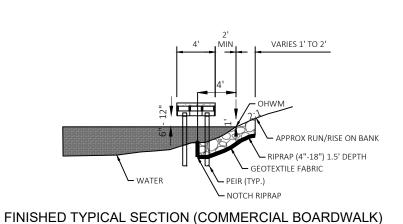
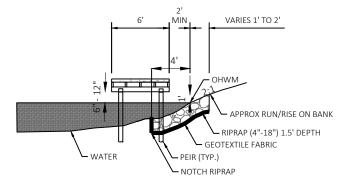
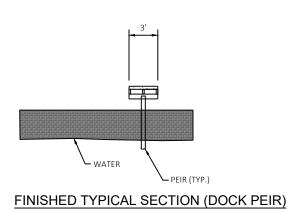


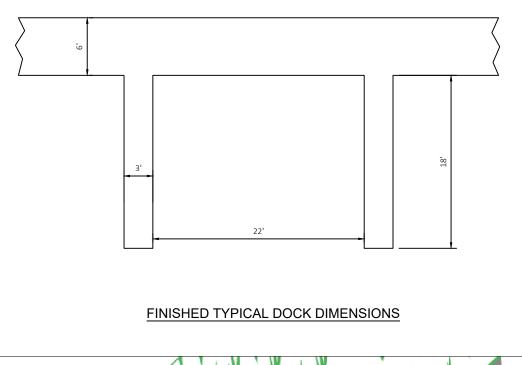
LAYOUT NAME - Plan 1 IN 100 FT

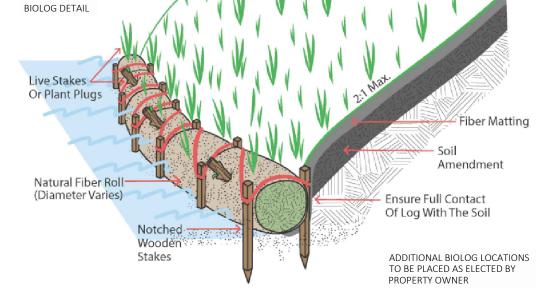
















6/5/2023 1:23 PM

PLOT DATE :

PROPOSED NATURAL ENHANCED SHORELINE PROPOSE TO CUT TREE AT 5 FT FROM ROOT BASE.
ANCHOR TO ROOT BASE. TURN TREE APPROX 45 DEGREES TO SHORELINE TO CREATE NATURAL LOG AND ROOT REVETMENT EXISTING SITE PHOTO TAKEN 4/14/2023 OF PROPOSED NATURAL ENHANCED SHORELINE (58 LF / 680 SF) EXISTING SITE PHOTO TAKEN 4/14/2023 OF PROPOSED BIOLOG LOCATION (120 LF) SHEET ###########

MOVE TO NATURAL LOG AND

ROOT REVETMENT AREA

PROJECT: THE CROSSING AT LAKE FOREST TOWN:

WASHINGTON

COUNTY: VILAS

DNR DOCK PERMIT EXHIBIT

PLOT BY :

GREG BUBOLZ

PLOT NAME :

PLOT SCALE :

FILE NAME :

NATURAL SHORELINE AREA TO BE

ENHANCED AND PROTECTED

Erosion Intensity (EI) Score Worksheet

State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921

Notice:, This data form is required under ch. NR 328, Wis. Adm. Code when reporting Erosion Intensity (EI) Scores. Personally identifiable information included on this form will be used to contact you and is not intended to be used for other purposes. It may be made available to requesters under Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

Section I: Landowner Information	on	Tak tak	ale and a little	Sub-line over						
North Developme	ent LF, LLC		Contact Person Zachary Nichols							
Mailing Address 12220 State	Line Road		Title Project Manager							
City Leawood	State KS	ZIP Code 66209	Telephone Number (include area code) 816-215-6620							
Email Address zac@dalmarkgroup.com			Fax Number 816-373-1975							
Section II: Contractor Information	on (if currently k	nown)								
Name Unknown			Contact Person							
Mailing Address			Title	Title						
City	State	ZIP Code	Telephone Number (include area code)							
Email Address			Fax Number	Fax Number						
Section III: Site Information										
Local Address 3801 Eagle W	aters Road		Waterway Name Eagle Lake / Voyageur Lake Thoroughfare							
% / ¼ ¼ ¼ Section Townshi SE NE 26 40		City Town	□ Village of _ Washington	County Vilas						
Section IV: Certification										
authorized representative and m data conditions listed in this form	ay sign this dat	a submission on cted the monitori	ng project to comply with these co	parian property or am the duly perty. I have read and understand all onditions. I understand that incorrect void under the provisions of ch. 30,						
Landowner Printed Name	. Nilala a la			mber (include area code)						
Landowner Signature	y Nichols		Date Signed	816-215-6620 Date Signed						
Complete below if permit application be signed by the landowner.	on was prepared	l by someone othe	er than the landowner. However, to	be valid, the certification above must						
Preparer Printed Name Gregory	y Bubolz		Firm DAAR Engineering, Inc.							
Mailing Address 1218 N 4th Street Suite 102			Title Project Engineer							
City Tomahawk	State VVI	ZIP Code 54487	Telephone Number (include area code) 715-650-0156							
Signature of Preparer		lu.	Date Sig	ned						

Section V: Erosion Intensity (EI) Score Worksheet.

Applicants and department staff shall use this worksheet to calculate erosion intensity pursuant to s. NR 328.08(2). Where an applicant or the department believes that, as a result of site conditions, storm-wave height as calculated in sub. (1) may inaccurately predict the degree of erosion, the erosion intensity score may be calculated to determine erosion. When the department or applicants assess erosion intensity (EI) at the shore protection site they shall apply methods outlined in this worksheet. Wherever EI and storm-wave height result in different energy categories, the site shall be placed in the category as determined by EI.

height result in different energy	categories, the sit							•			1
SHORELINE VARIABLES	DESCRIPTIVE CATEGORIES EROSION INTENSITY VALUE IS LOCATED IN PARENTHESIS ON LEFT SIDE OF EACH CATEGORY BOX										
AVERAGE FETCH ¹ -, average distance (miles), across the open water to the opposite shore measure 45 ⁰ other side of the perpendicular to the shoreline.	(0) <1/10 (2) 1/10 1/3					1 –3	(10) 3-10		13) 10-30 (16) >30		0
DEPTH AT 20 FEET, Depth of water (feet) 20 feet from shoreline	(1) <1 (2		(2) 1-3	1-3		3-6	(4) 6	5-12	2 (5) >12		3
DEPTH AT 100 FEET, depth of water (feet) 100 feet from shoreline	(1) <1		(2) 1-3		(3) 3-6		(4) 6	6-12	12 (5) >12		0
BANK HEIGHT ² , height of bank (feet), measure from toe of the bank to top of the bank-lip.	(1)<1	(2) 1-5			(3) 5-10		(4) 1	0-20	-20 (5) >20		2
BANK COMPOSITION composition and degree of cementation of the sediments	well cemented	(0) rock, marl, tight clay, well cemented sand (dig with a pick)			erately		ey sand, Ited (easily nife)	S	15) uncemented sands or peat (easily dug with your hand)		7
INFLUENCE OF ADJACENT STRUCTURES, likelihood that adjacent structures are causing flank erosion at the site		(1) ha armorin one adja prope	g on a	armori ac	e) hard ng on b djacent operties	o p r	(3) hard armoring on ne adjacen with measurable recession	t j	(4) hard armoring on both adjacent properties with measurable recession adjacent to both structures		O
AQUATIC VEGETATION ³ type and abundance of vegetation occurring in the water off the shoreline	(0) rocky substrates unable to support vegetation. (1) dense or abundant (4) scattered or patchy emergent, floating or emergent, floating or submergent vegetation vegetation vegetation (7) lack of emergent, floating or emergent, floating or submergent vegetation vegetation								floating ergent	7	
BANK VEGETATION, type and abundance of the vegetation occurring on the bank face and immediately on top of the bank lip	(0) bank compose of rocky outcropping unable to support trees, vegetation grasse			, shrub	upland os and cluding	(4) clumps of vegetation alternating with areas lacking vegetation			(7) lack of vegetation (cleared), crop or agricultural land		1
BANK STABILITY, The degree to which bank and adjacent area (within 10 feet of the bank-lip) is stabilized by natural ground, shrub, and canopy vegetation (outside a 10' pier access corridor). Human disturbance is typified by tree removal, brushing, mowing, and lawn establishment.	(0) (7 established lawn with few canopy trees	gro su car	(4) moderate to dense natura ground vegetation and canopy trees with shrub layer substantially reduced; or few canopy trees with moderate to dense natural shrub layer.			w de	dense canopy trees with moderate to dense natural shrub		4		
SHORELINE GEOMETRY general shape of the shoreline at the point of interest plus 200 yards on either side.	(1) coves	(4) irregular shoreline or straight shoreline				(8) h	(8) headland, point, or island		4		
SHORE ORIENTATION ⁴ geographic direction the shoreline faces			south- 0 ⁰ , 1 ⁰ -		(4) south to west- southwest (169 ⁰ - 258 ⁰)		(8) west to north- northwest (259 ⁰ - 349 ⁰)		1		
BOAT WAKES ⁵ proximity to and use of boat channels	(1) no channels within 100 yards, broad open water body, or constricted shallow water body; or channels within no-wake zones (6) thoroughfare within 100 yards carrying limited traffic, or thoroughfare 100 yards to 1/2 mile offshore carrying intensive traffic (unregulated boating activity)							within rying ffic	12		
	EROSION INTENSITY SCORE (EI)									\rightarrow	41